

# COURSE DETAIL

## COMPARATIVE CELL BIOLOGY

**Country**

United Kingdom - England

**Host Institution**

University College London

**Program(s)**

University College London

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Biological Sciences

**UCEAP Course Number**

131

**UCEAP Course Suffix**

N

**UCEAP Official Title**

COMPARATIVE CELL BIOLOGY

**UCEAP Transcript Title**

COMPARATVE CELL BIO

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

In this course, lectures are delivered by research-leaders in evolutionary cell biology, genetics, molecular cell biology, and ageing to provide a comprehensive understanding of cell function at the level of genome organization, gene regulation, proteome management, metabolic homeostasis and adaptive responses across different cell types and organisms (bacteria, archaea, fungi, plants, worms, planaria, tardigrades, fish, rodents and humans). By focusing on these areas of cell biology, the course then examines the similarities and differences in cell function across domains, kingdoms and species by discussing: 1) the cell biology behind specializations in cell function, 2) differences in the biology behind plant and animal cells, 3) the evolution of cell-type specificity and multicellular species, 4) organism-specific adaptive responses and 5) changes in function between young and old cells. In addition, students have the opportunity to conduct an independent mini research project in which they contribute to a real-world ongoing experiment aimed at understanding how cells respond to the presence of toxic proteins.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

BIOL0052

### **Host Institution Course Title**

COMPARATIVE CELL BIOLOGY

### **Host Institution Campus**

### **Host Institution Faculty**

### **Host Institution Degree**

### **Host Institution Department**

Division of Biosciences

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